



DEPARTMENT OF THE NAVY
HEADQUARTERS UNITED STATES MARINE CORPS
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MCO 2040. 10
C2CT
10 Apr 90

MARINE CORPS ORDER 2040.10

From: Commandant of the Marine Corps
To: Distribution List

Subj: ADVANCE LOGISTICS ORDER (ALO) FOR THE SECURE VOICE
MODULE (SVM), TSEC/KYV-2 AND TSEC/KYV-2A

Ref: (a) MCO 10510.50A
(b) MCO P4105.3
(c) MCO P4400.82F
(d) CMS-4L (NOTAL)

Encl: (1) Materiel Fielding Plan for the Secure Voice Module,
TSEC/KYV-2 and TSEC/KYV-2A

1. Purpose. This Order provides information to commanders relative to the Secure Voice Module (SVM), TSEC/KYV-2 and TSEC/KYV-2A, and to provide instructions for placing these items in service. Reference (a), the ALO for the AN/PRC-68/68A, also contains information pertaining to the SVM's TSEC/KYV-2/2A. If conflict or discrepancies between reference (a) and this Order occur, the information contained in this Order takes precedence.

2. Background

a. Requirement. Radio Set, AN/PRC-68 was accepted in 1975 as a suitable radio to fulfill the requirements of a very high frequency (VHF), short-ranged transceiver to be employed in the Marine Corps small unit operations. In 1983, a modification was accepted which incorporated a capability to allow semi-independent presetting of 10 different frequencies in the AN/PRC-68. Radios incorporating this modification were designated the AN/PRC-68A. Development was undertaken by the National Security Agency (NSA) to provide secure voice communications for the Radio Set, AN/PRC-68 and AN/PRC-68A. This development resulted in the design and procurement of the SVM, TSEC/KYV-2, and the SVM, TSEC/KYV-2A.

b. New Items. The SVM's TSEC/KYV-2/2A are designed to be installed between the bottom of the AN/PRC-68 or the AN/PRC-68A transceiver section and the top of the battery case. These items provide secure voice communications. Power is provided by the associated radio battery, BA-1588/U. The SVM's, TSEC/KYV-2/2A are compatible when operating in the same frequency range with all SAVILLE based communications security (COMSEC) equipment.

(1) SVM TSEC/KYV-2. Using the TSEC/KYV-2 with the AN/PRC-68A Radio Set will result in a related 50 percent decrease in battery life. There are no external adjustments. It is a self-contained solid state unit consisting of four directly interconnected printed circuit boards (PCB) enclosed in a wrap-around aluminum case. The TSEC/KYV-2 must be disassociated from the AN/PRC-68 or AN/PRC-68A for plain text communications, since there is no receiver plain text override capability. The TSEC/KYV-2 will store only one cryptographic variable at a time.

(2) SVM TSEC/KYV-2A. The SVM, TSEC/KYV-2A is interchangeable with, and is the follow-on for the SVM, TSEC/KYV-2. The SVM, TSEC/KYV-2A is a nonreparable, self-contained, solid-state unit that consists of only one PCB formed within a module and enclosed in a wraparound aluminum case. It will not appreciably decrease the AN/PRC-68 or AN/PRC-68A battery life. It is about one and one half-inch shorter than the SVM, TSEC/KYV-2. Operationally and functionally they are the same.

c. Replaced item. There are no items presently in the inventory being replaced by these equipments.

d. Related New items. There are no related new items in the inventory.

e. Associated Equipment. Electronic key fill of the SVM's, TSEC/KYV-2/2A will be accomplished through the use of the KYK-13, Electronic Transfer Device, KYX-15 Net Control Device, the AN/CYZ-10 Data Transfer Device, or the General Purpose Tape Reader, TAMCN A8024.

f. Item Description SVM, TSEC/KYV-2

Item Name: Secure Voice Module, TSEC/KYV-2

TAM No.: A8045 VII G

ID No.: 10026A

NSN: 5810-01-160-4998

Stores account code (SAC): SAC 3

Unit of issue: each

Unit cost: \$1,640

Unit package standard: 1

Standardization and Procurement Status:
standard-available

Item Description SVM, TSEC/KYV-2

Length: 9.525 cm (3.75)

Width: 3.81 cm (1.50)

Height: 8.89 cm (3.50)

Weight: 14 oz

Replacement factor: N/A

g. Item Description SVM, TSEC/KYV-2A

Item name: Secure Voice Module, TSEC/KYV-2A

TAM No.: A8045 VII G

ID No.: 10027A

NSN: 5810-01-160-4999

Stores account code (SAC): SAC 3

Unit of issue: each

Unit cost: \$764

Unit packaged standard: 1

Standardization and procurement status:
standard-available

Length: 9.525 cm (3.75)

Width: 3.81 cm (1.50)

Height: 5.08 cm (2.0)

Weight: 9 oz

Replacement factor: N/A

3. Action

a. Initial Fielding. The SVM's, TSEC/KYV-2/2A equipment will be force-fed by the Director, Communications Security Material System (DCMS) to the Marine Corps units indicated in the enclosure as directed by the CMC (CCT).

b. Initiating Service. Upon receipt, the SVM, TSEC/KYV-2/2A equipment may be placed on administrative deadline until the requirements of reference (b) have been satisfied. The CG's Fleet Marine Forces, Atlantic and Pacific; and the CG's 4th MarDiv and 4th MAW are authorized to place the equipment in service at their discretion per reference (c). The SVM's, TSEC/KYV-2/2A are controlled items and owning units must also report on hand quantities to DCMS per reference (d).

4. Reserve Applicability. This Order is applicable to the Marine Corps Reserve.

J. R. DAILEY
By direction

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MATERIEL FIELDING PLAN FOR THE
SECURE VOICE MODULE (SVM), TSEC/KYV-2 AND TSEC/KYV-2A

1. General Information

a. Fielding Methodology and Justification. Fielding of the SVM's, TSEC/KYV-2/2A will be horizontally as directed by the CMC (CCT) and upon recommendations of force commanders. The equipment will be force-fed to operating units in the quantities specified in appendix A.

b. Essential Points of Contact

<u>Title</u>	<u>Name</u>	<u>Code</u>	<u>Telephone</u>
Program Manager	Capt. A.L. Tucker	SPAWAR (PMW-151)	AV 222-8867
Acquisition Manager	Mr. Jim McGovern	SPAWAR (PMW-151)	AV 222-7451
ILS Manager	Mr. Ronald Johnson	MCRDAC (C2CT)	AV 226-1120
Equipment Specialist	Mr. Edmond Reschner	MCLBA (Code 848-1)	AV 567-5421

2. Supply Support/Provisioning Availability Schedule

a. Repair Parts Support. Repair parts will not be stocked or required in Marine Corps units to support the maintenance concept.

b. Retrofit and Modification Kits. Not applicable.

3. Maintenance Support Concept

a. General Maintenance Plan. The maintenance plan is established utilizing the standard three-level maintenance concept for COMSEC equipments. No maintenance actions except identification of a failed SVM, TSEC/KYV-2 or KYV-2A are required at the organizational level.

b. Maintenance Concept

(1) Organizational Maintenance

(a) First and second echelon corrective maintenance will be performed by the organizational operator/repairman and is limited to:

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1 Detecting operational faults.

2 Replacing the faulty TSEC/KYV-2/2A or associated equipment.

3 Verifying the proper system operation.

4 Forwarding the faulty item to the intermediate maintenance facility per MCO 4408.2 and the Communications Security Material System Manual, CMS-4L.

(b) Preventive maintenance: inspecting and cleaning the exterior, connectors, and receptacles.

(c) Test equipment: None.

(d) Tools required: None.

(e) Special skills: None.

(2) Intermediate Maintenance (Force Logistics Support Cryptographic Facility (FLSCF)). Intermediate level maintenance will be performed at the FLSCF by Communications Security Technician (MOS 2881) personnel after appropriate training. These tasks will be limited to:

(a) Testing the SVM's TSEC/KYV-2/2A with the ST-13 to ensure the item is faulty.

(b) Evacuating faulty SVM's TSEC/KYV-2/2A to supporting cryptographic repair facilities (CRF) for disposition per CMS-4L.

4. Support Equipment

a. Organizational Level. None.

b. Intermediate Level, Intermediate Cryptographic Repair Site (ICRS). Test Set, St-13/TSEC (TAMCN A8093) will be used as a go/no-go tester. The test set has been distributed to intermediate level support activities as indicated in appendix B. A limited number of additional test sets are available and may be requested from the CG MCRDAC (C2CT). Failed testers will be reported to the DCMS, Washington, DC for disposition.

5. Packaging, Handling, Storage, and Transportation Requirements

a. Packaging. SVM's, TSEC/KYV-2/2A packaging will be per MIL-E-17555 level "A" packaging.

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b. Handling. A security clearance is not required for viewing of, or access to, unkeyed SVM, TSEC/KYV-2/2A units. Access shall be restricted U.S. citizens whose duties require such access. Access may also be granted to permanently admitted resident aliens, who are either U.S. Government civilian employees, active duty military, or Reserve members of the U.S. Armed Forces whose duties require access.

c. Storage. Unkeyed SVM, TSEC/KYV-2/2A units must be stored in a manner that affords a level of protection at least equal to that normally provided to high value or sensitive materiel. Classified keying materials, classified supporting documents, and keyed SVM, TSEC/KYV-2/2A units must be stored per the procedures outlined in the Cryptographic Security Policy and Procedures, CSP-1A and CMS-4L.

d. Transportation. Transportation of the SVM's TSEC/KYV-2/2A will be per MIL-STD-1367 and MCO P4600.7. Controlled Cryptographic Item (CCI) equipment and components may be transported only by traceable means. Authorized transportation media are: Diplomatic Courier Service, officially designated command couriers, U.S. registered mail (provided that it never passes out of U.S. control or through a foreign postal system or any foreign inspection), and military or commercial transportation systems with strict accountability provided by the Department of Defense Constant Surveillance System (DoD CSS). In foreign countries where there is a significant U.S. military presence (two or more military bases where U.S. military personnel are stationed), foreign nationals who are employed by the U.S. Government may transport CCI materiel. There must be a signature record from the pickup location to the ultimate destination, and a U.S. citizen must accompany the foreign employee who is transporting the materiel. When the materiel is contained in a closed vehicle or shipping container (conex, dromedary) which is locked and has a shipping seal, a U.S. citizen need not accompany the CCI to its destination. A completed SF-153 must accompany each unit during any transfer of SVM, TSEC/KYV2/2A equipment. Shipment of CCI materiel must always be made with a requisition and invoice/shipping document, DD-1149, attached to the outside container.

e. TSEC/KYV-2/2A Classification. Unkeyed SVM, TSEC/KYV-2/2A units have been classified as CCI's. CCI items are unclassified but remain under the control of the DCMS for the central accounting purposes. Keyed SVM, TSEC/KYV-2/2A units assume a classification level equal to that of the keying materials and will be safeguarded per the provisions of CSP-1A.

f. TSEC/KYV-2/2A Accountability. Installed and spare SVM, TSEC/KYV-2/2A units will be assigned accountability legend code AL-2. They are accounted for to DCMS by serial number per CMS-4L.

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6. Technical Data and Configuration Requirements

a. Manuals. The Maintenance Manual, ST-13, Publications SAM-65/TSEC is available through the classified material system. Requests will be addressed to the DCMS (Code T60M) per CMS-4L. TM-06827B-10/1, Operator Manual, Radio Set AN/PRC-68A, PCN 184 06827100 is stocked in the Marine Corps Supply System.

b. Configuration. The SVM, TSEC/KYV-2/2A is interchangeable with, and is the follow-on for the SVM, TSEC/KYV-2. It is about one-inch shorter than the SVM, TSEC/KYV-2. Operational procedures for the two models are identical.

7. Computer Resources Support. Not applicable.

8. Warranty Provisions. The SVM's, TSEC/KYV-2/2A are not covered by warranty.

9. Training Requirements

a. Operator. No formal operator training is required. Familiarization training for Communications Chiefs, MOS 2591; Radio Chiefs, MOS 2537; and Field Radio Operator MOS 2531 will be provided by the Marine Corps Communication-Electronics School (MCCES), MCAGCC, Twentynine Palms, California. This training will be included in the Operational Communications Chief Course and the Field Radio Operator Course.

b. Maintenance. There will be no formal maintenance training for the SVM's, TSEC/KYV-2/2A. Training for operation of the Test Set, ST-13 will be on-the-job training.

10. Facilities Requirements/MILCON Project Status. New facilities are not required.

11. Personnel Requirement. Personnel requirements will not change.

12. Gaining Command Responsibilities

a. Upon receipt, the SVM's TSEC/KYV-2/2A will be placed on administrative deadline until the provisions of MCO P4400.32 are accomplished.

b. Per MCO P4400.32, commanders shall submit a report to the CG MCLB (Code P834), Albany, GA 31704-5001, when the equipment is placed in service or in the event the equipment cannot be placed in service due to unforeseen problems affecting its use.

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c. Special accounting procedures for the SVM's,
TSEC/KYV-2/2A and their associated equipments shall be
controlled by CSP-1A and CMS-4L.

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APPENDIX A

LIST OF ALLOWANCES AND DELIVERY SCHEDULE

<u>T/E No.</u>	<u>Unit</u>	<u>Qty.</u>
5980	LFTCLant	14
7434	EdCtr, MCDEC	8
7450	TBS, EdCtr, Quantico	7
7490	WpnsTrngBn, MCCDC	4
7495	H&HS, MCAF, Quantico	5
7720	MCCES, MCAGCC	32
B-1182	H&HSCo, InfRegt, 1stMEB	94
B-1432	ACo, ReconBn, 1stMEB	17
B-2308	155mmBtry, D/S (T) Bn (M198), ArtyRegt, 1stMEB	6
B-2309	HQBtry, D/S (T) Bn (M198), ArtyRegt, 1stMEB	12
B-3211	CommScol, FMFLant	6
B-8702	MarineRotarySptSquadron	15
H-1027	Det, RPVCo/MPS-1	8
I-1027	Det, RPVCo/MPS-2	8
J-1027	Det, RPVCo/MPS-3	8
M-4623	ForceReconCo, FMF	30
M-4955	ServCo, H&SBn, FMFLant	8
N-1014	MPCo, HqBn, 1stMarDiv	8
N-1015	CommCo, HqBn, 1stMarDiv	48
N-1017	RPVCo, HqBn, 1stMarDiv	16
N-1024	MPCo, HqBn, 1stMarDiv	8
N-1025	CommCo, HqBn, 2dMarDiv	48
N-1027	RPVCo, HqBn, 2dMarDiv	16

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<u>T/E No.</u>	<u>Unit</u>	<u>Qty.</u>
N-1035	CommCo, HqBn, 3dMarDiv	48
N-1037	RPVCo, HqBn, 3dMarDiv	16
N-1044	MPCo, HqBn, 4thMarDiv	8
N-1045	CommCo, HqBn, 4thMarDiv	48
N-1047	RPVCo, HqBn, 4thMarDiv	16
N-1162	H&SCo, InfBn, 1stMarDiv	94
N-1167	H&SCo, InfBn, (4thBnBase) 1stMarDiv	109
N-1172	H&SCo, InfBn, 2dMarDiv	94
N-1177	H&SCo, InfBn, (4thBnBase) 2dMarDiv	109
N-1182	H&SCo, InfBn, 3dMarDiv	94
N-1192	H&SCo, InfBn, 4thMarDiv	94
N-1261	HqBtry, ArtyRegt, 4thMarDiv	4
N-1271	HqBtry, 155mm(SP)G/SBn, ArtyRegt, 4thMarDiv	12
N-1272	155mm(SP)Btry, G/SBn, ArtyRegt, 4thMarDiv	12
N-1274	HqBtry, 8"G/SBn, ArtyRegt, 4thMarDiv	4
N-1275	8"(SP)Btry, 8"GSBn, ArtyRegt, 4thMarDiv	6
N-1311	H&SCo, CbtEngrBn, 1stMarDiv	27
N-1321	H&SCo, CbtEngrBn, 2dMarDiv	27
N-1331	H&SCo, CbtEngrBn, 3dMarDiv	27
N-1341	H&SCo, CbtEngrBn, 4thMarDiv	27
N-1411	H&SCo, ReConBn, 1stMarDiv	63
N-1421	H&SCo, ReConBn, 2dMarDiv	6
N-1422	ReconCo, ReConBn, 2dMarDiv	76
N-1431	H&SCo, ReConBn, 3dMarDiv	44

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<u>T/E No.</u>	<u>Unit</u>	<u>Qty.</u>
N-1441	H&SCo, ReConBn, 4thMarDiv	101
N-1711	H&SCo, 1stLAIBn, 1stMarDiv	35
N-1712	WpnsCo, 1stLAIBn, 1stMarDiv	45
N-1713	LAVCo, 1stLAIBn, 1stMarDiv	30
N-1721	H&SCo, 2dLAIBn, 2dMarDiv	35
N-1722	WpnsCo, 2dLAIBn, 2dMarDiv	45
N-1723	LAVCo, 2dLAIBn, 2dMarDiv	30
N-1731	H&SCo, 3dLAIBn (-), 3dMarDiv	35
N-1732	WpnsCo, 3dLAIBn (-), 3dMarDiv	35
N-1733	LAVCo, 3dLAIBn (-), 3dMarDiv	30
N-1734	LAVCo, (Rein) (-), 3dLAVBn, 1stMarDiv	86
N-1741	H&SCo, 4thLAVBn, 4thMarDiv	35
N-1742	WpnsCo, 4thLAVBn, 4thMarDiv	45
N-1743	LAVCo, 4thLAVBn, 4thMarDiv	30
N-2101	HqBtry, ArtyRegt, 1stMarDiv	8
N-2108	155mm(M198)Btry, D/S(T)Bn, ArtyRegt, 1stMarDiv	16
N-2109	HqBtry, D/S(T)Bn, ArtyRegt, 1stMarDiv	8
N-2118	155mm(M198)Btry, G/SBn, ArtyRegt, 1stMarDiv	4
N-2119	HqBtry, G/S(T)Bn, ArtyRegt, 1stMarDiv	12
N-2128	155mmBtry, D/S(T)Bn(M114), ArtyRegt, 1stMarDiv	16
N-2137	8"Btry, G/S(SP)Bn, ArtyRegt, 1stMarDiv	14
N-2138	155mmBtry, G/S(SP)Bn, ArtyRegt, 1stMarDiv	14
N-2139	HqBrty, G/S(SP)Bn, ArtyRegt, 1stMarDiv	8
N-2201	HqBtry, ArtyRegt, 2dMarDiv	8

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<u>T/E No.</u>	<u>Unit</u>	<u>Oty.</u>
N-2208	155mmBtry, D/S (T) Bn (M198) , ArtyRegt, 2dMarDiv	16
N-2209	HqBtry, D/S (T) Bn (M198) , ArtyRegt, 2dMarDiv	8
N-2218	155mmBtry, G/S (T) Bn (M198) , ArtyRegt, 2dMarDiv	14
N-2219	HqBtry, G/S (T) Bn (M198) , ArtyRegt, 2dMarDiv	8
N-2237	8"Btry, G/S (SP) Bn, ArtyRegt, 2dMarDiv	16
N-2238	155mm (SP) Btry, G/SBn, ArtyRegt, 2dMarDiv	12
N-2239	HqBtry, G/S (SP) Bn, ArtyRegt, 2dMarDiv	8
N-2301	HqBtry, ArtyRegt, 3dMarDiv	8
N-2308	155mm (M198) Btry, D/S (T) Bn, ArtyRegt, 3dMarDiv	16
N-2309	HqBtry, D/S (T) Bn (M198) , ArtyRegt, 3dMarDiv	8
N-2318	155mm (T) (M198) Btry, G/SBn, ArtyRegt, 3dMarDiv	14
N-2319	HqBtry, G/S (T) Bn, ArtyRegt, 3dMarDiv	8
N-2337	8"Btry, G/S (SP) Bn, ArtyRegt, 3dMarDiv	12
N-2338	155mmBtry, G/S (SP) Bn, ArtyRegt, 3dMarDiv	6
N-2339	HqBtry, G/S (SP) Bn, ArtyRegt, 3dMarDiv	4
N-2402	TargetAcqBtry, ArtyRegt, 4thMarDiv	4
N-2408	155mmBtry, D/S (T) Bn (M198) , ArtyRegt, 4thMarDiv	3
N-2409	HqBtry, D/S (T) Bn (M198) , ArtyRegt, 4thMarDiv	12
N-3132	ELMACO, MaintBn, 1stFSSG	8
N-3136	G/SMaintCo, MaintBn, 1stFSSG	8
N-3144	LdgSptCo, LdgSptBn, 1stFSSG	15
N-3151	H&SCo, EngrBn, 1stFSSG	79
N-3211	H&SCo, H&SBn, 2dFSSG	6
N-3232	ELMACO, MaintBn, 2dFSSG	8

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<u>T/E No.</u>	<u>Unit</u>	<u>Qty.</u>
N-3236	G/SMaintCo, MaintBn, 2dFSSG	8
N-3244	LdgSptCo, LdgSptBn, 2dFSSG	5
N-3251	H&SCo, EngrSptBn, 2dFSSG	81
N-3332	ELMACO, MaintBn, 3dFSSG	8
N-3336	G/SMaintCo, MaintBn, 3dFSSG	8
N-3344	LdgSptCo, LdgSptBn, 3dFSSG	5
N-3351	H&SCo, EngrSptBn, 3dFSSG	81
N-3432	ELMACO, MaintBn, 4thFSSG	8
N-3436	G/SMaintCo, MaintBn, 4thFSSG	8
N-3444	LdgSptCo, LdgSptBn, 4thFSSG	5
N-3451	H&SCo, EngrSptBn, 4thFSSG	81
N-4722	CitFMFPac	5
N-4737	H&SCo, RadioBn, FMF	6
N-8702	MarineFixedWingSptSquadron	15
N-8703	MarineRotaryWingSptSquadron	15
N-8946	HMH, MAG/VH, MAW, (CH53E)	5

Appendix A to
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APPENDIX B

DISTRIBUTION LIST FOR TEST SET ST-13/TSEC, TAMCN A-8093

<u>T/E No.</u>	<u>Unit</u>	<u>Qty.</u>
7434	Education Center, Quantico	1
7720	MCCES, MCAGCC	2
B-3331	MaintCo, BSSG-1	1
N-1015	CommCo, HqBn, 1stMarDiv	1
N-1025	CommCo, HqBn, 2dMarDiv	1
N-1035	CommCo, HqBn, 3dMarDiv	1
N-3132	ELMACO, MaintBn, 1stFSSG	3
N-3232	ELMACO, MaintBn, 2dFSSG	3
N-3332	ELMACO, MaintBn, 3dFSSG	3
N-8651	Hq, MarineWingCommSqdn	1

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